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basic imagery interpretation report

Soviet Mobile Missile Summary

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DEPLOYED STRATEGIC SSM FACILITIES

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JULY 1981

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SOVIET MOBILE MISSILE SUMMARY

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SUMMARY

1. (S/D) This report updates information in NPIC report [] on SS-20 mobile IRBM bases in the USSR. This report also includes a synopsis of significant mobile missile activity seen at two offensive missile test centers, a production facility, and several command and control facilities.

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2. (TSR) Significant activity at deployed facilities (Figure 1 and Table 1) during the reporting period included the launching of three SS-20s from the Drovyanaya SSM Complex [] the identification of two new mobile bases in central USSR, SS-20-related construction at two MRBM and IRBM launch sites, 12 SS-20 field training exercises, and the conversion of three-bay garages to four-bay garages at three support bases.

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3. (U) The reporting period extends from [] A location map, ten annotated photographs, and three tables are included in this report.

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DISCUSSION

Deployed Complexes

4. (TSR) As of [] of the 37 mobile bases were in the late stage of construction or complete and were assessed as being capable of maintaining an operational unit. Based on past construction practices, the 37 bases, including the remote site at Drovyanaya, will eventually contain a total of 336 single-bay garages to house SS-20 missiles on launchers. Six of the bases are in the eastern section of Siberia, five are in the western section of Siberia, ten are in the central USSR, and 16 are in the western section of the USSR (Belorussia).

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Eastern Siberia

5. (TSR) **Drovyanaya SSM Complex.** On [] three SS-20 IRBMs were launched from the complex (51-31N 113-01E) to the Kamchatka Peninsula at 0417Z, 0455Z, and 0540Z.² The second missile failed shortly after launch; the other two made successful flights to the Kamchatka Peninsula where they impacted approximately 18 minutes after launch. The launches were reported to have been approximately 21 nautical miles (nm) north-northwest of the town of Chita.

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6. (TSR) **Drovyanaya Mobile IRBM Base 2.** On [] an SS-20 transporter-erector-launcher (TEL) with an SS-20 missile canister was protruding from a missile-ready bunker (MRB) at this base (Figure 2). This is the first observation of a TEL at an MRB. On [] the TEL was not present.

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7. (S/D) **Drovyanaya Mobile IRBM Base 4.** A fourth bay has been added to each of the three-bay garages at this base. As of [] two four-bay conversions were complete and one was in the midstage of conversion. This was the second mobile IRBM support base to undergo three-bay to four-bay conversion.

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8. (S/D) **Drovyanaya Mobile IRBM Base 5.** On [] an SS-20 missile canister was partially erected inside a single-bay garage at this base. A probable SS-20-associated vehicle was on the road next to the garage. This was the first observation of an occupied single-bay garage at this base.

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9. (S/D) SS-20 field training exercises in the Drovyanaya Complex were as follows:

Location	Date	Remarks	
FTA RD []		Camouflaged command, control, and communications (C3) unit	25X1
FTA 1C-RVT []		Launch line consisting of at least six camouflaged SS-20-associated vehicles	25X1
FTA 5A-RVT []		Launch line consisting of at least five camouflaged SS-20-associated vehicles; only partial coverage of this RVT; three BRDM-2 and at least one other vehicle were just north of 3B-RVT []	25X1
RTP []		Launch line consisting of at least seven camouflaged SS-20-associated vehicles approximately 3 nm west-southwest of RTP	25X1

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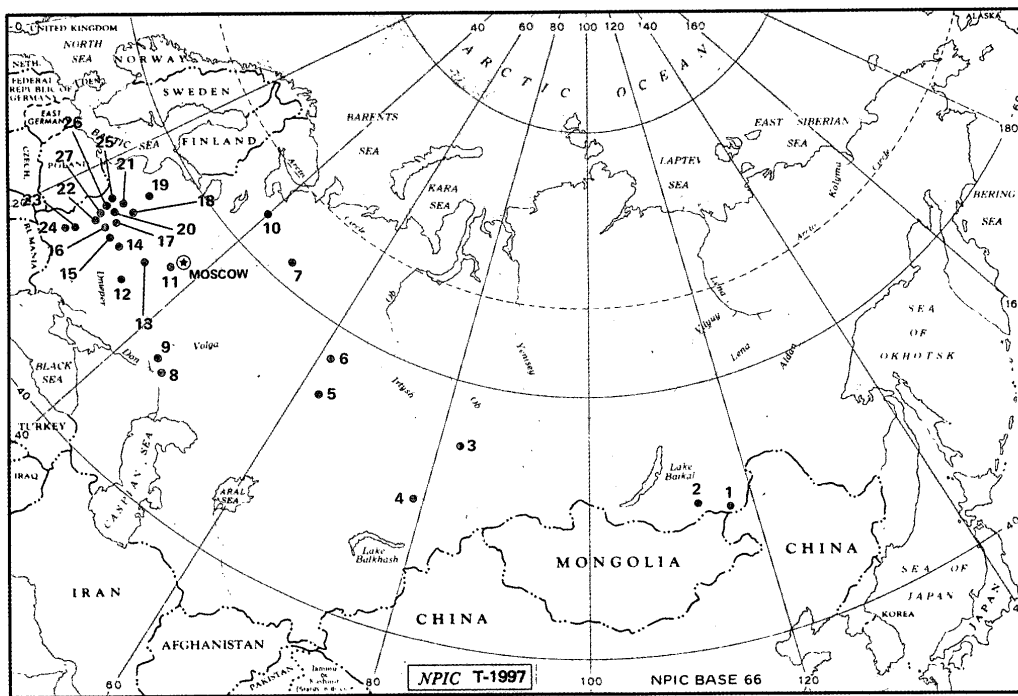


FIGURE 1. LOCATIONS OF SS-16/-20 ACTIVITY IN THE USSR

Item	Installation Name	BE No
1	Olovyannaya Mobile IRBM Base 1	
2	Drovyannaya Mobile IRBM Base 1	
	Drovyannaya Mobile IRBM Base 2	
	Drovyannaya Mobile IRBM Base 3	
	Drovyannaya Mobile IRBM Base 4	
	Drovyannaya Mobile IRBM Base 5	
3	Drovyannaya SS-20 Remote Site 1	
	Novosibirsk Mobile IRBM Base 1	
	Novosibirsk Mobile IRBM Base 2	
	Novosibirsk Mobile IRBM Base 3	
	Novosibirsk Mobile IRBM Base 4	
	Novosibirsk Mobile IRBM Base 5	
4	Semipalatinsk NWPG	
5	Bobrovskiy Missile Support Rear Depot	
6	Verkhnyaya Salda Mobile IRBM Base 1	
	Verkhnyaya Salda Mobile IRBM Base 2	
	Verkhnyaya Salda Mobile IRBM Base 3	
	Verkhnyaya Salda Mobile IRBM Base 4	
	Verkhnyaya Salda Mobile IRBM Base 5	
7	Yurya Mobile IRBM Base 1	
	Yurya Mobile IRBM Base 2	
	Yurya Mobile IRBM Base 3	
	Yurya Mobile IRBM Base 4	
	Yurya Mobile IRBM Base 5	
8	Kapustin Yar Missile/Space Test Center SSM	
9	Volgograd Steel and Machinery Plant	
	Krasnyy Barricada 221	
10	Plesetsk Missile/Space Test Center SSM	
11	Serpukhov SSM Engineering Research Training Facility	
12	Lebedin Mobile IRBM Base 1	
13	Bryansk Guided Missile Support Equipment Plant II	
14	Rechitsa Mobile IRBM Support Base	
	Rechitsa Mobile IRBM Base 1A	
	Rechitsa Mobile IRBM Base 1B	
	Rechitsa Mobile IRBM Base 1C	
15	Mozyr Mobile IRBM Base/Training Facility	
16	Konkovichi Mobile IRBM Base	
17	Gresk Mobile IRBM Base 1	
18	Postavy Mobile IRBM Base	
19	Polotsk Mobile IRBM Base 1	
	Polotsk Mobile IRBM Base 2	
20	Minsk Motor Vehicle and Guided Missile Support Plant	
21	Smorgon Mobile IRBM Base 1	
	Smorgon Mobile IRBM Base 2	
22	Kozhanovich Mobile IRBM Base	
23	Kivertsy Mobile IRBM Base 1	
24	Lutsk Mobile IRBM Base 1	
25	Lida Mobile IRBM Base 1	
26	Dyatlovo Mobile IRBM Base 1	
27	Slonim Mobile IRBM Base 1	

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Location	Date	Remarks
Mobile Base 5		Seven camouflaged SS-20-associated vehicles approximately 800 meters west of mobile base 5 at 51-23-30N 112-51-20E; two probable POL-type vehicles also present on 8 June; last exercise in this area in June 1980

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Western Siberia

10. (S/D) **Novosibirsk Mobile IRBM Base 3.** On [] an SS-20 launch line was on the loop road within the operations area of this base. In addition to three camouflaged SS-20 TELs with canisters, four camouflaged SS-20 missile support vans (MSVs) and a BTR-60 armored personnel carrier (APC) were present. In addition, shipment packaging material was in front of six of the nine single-bay garages. This type of packaging material may be associated with warheads. 25X1
11. (S/D) By [] footings for an extra bay had been added to one three-bay garage at this base. Linear grading had been prepared earlier next to a second three-bay garage. This is the third mobile IRBM support base to undergo three-bay to four-bay conversion. 25X1
12. (S/D) **Novosibirsk IRBM RTP** [] On [] SS-20 single-bay garage components were stacked on the southern side of the rail line in the receiving area. The components were not present on [] and were probably intended for Base 5 which was observed under construction. 25X1

Central USSR

13. (S/D) **Verkhnyaya Salda Mobile IRBM Base 5.** The fifth mobile IRBM base (Figure 3) identified in the Verkhnyaya Salda Division of the Orenburg Strategic Rocket Forces (SRF) Army was under construction at Verkhnyaya Salda SSM Launch Position 4 [] on [] On [] the foundation for a C-shaped command and control building, unique to the SS-20 system, was under construction in the support area. By [] footings existed for eight single-bay garages in addition to the complete single-bay garage and footings for at least two three-bay garages were present. 25X1
14. (S/D) **Verkhnyaya Salda ICBM RTP** [] On [] possible SS-20 single-bay garage components were on four railcars in the Complex Support Facility Rail [] The possible components consisted of vertical wall stanchions and footings for one garage. They were probably for Base 5 which was observed under construction. 25X1

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15. (S/D) SS-20 field training exercises in the Verkhnyaya Salda Complex were as follows:

Location	Date	Remarks
FTA 1B-RVT [redacted]	[redacted]	Ten camouflaged probable SS-20-associated vehicles
Mobile Base 1	[redacted]	Probable C3 unit consisting of five camouflaged SS-20-associated vehicles approximately 0.5 nm west of Base 1 at 58-08-05N 060-29-20E

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16. (S/D) **Yurya Mobile IRBM Base 5.** The fifth mobile IRBM base (Figure 4) identified in the Yurya Division of the Vladimir SRF Army was under construction at Yurya SSM Launch Position 3 [redacted] on [redacted] when a foundation for a C-shaped command and control building was observed in the support area. On [redacted] foundations were present for seven single-bay garages (two single-bay garages are already complete) as well as footings for three three-bay garages.

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17. (S/D) **Yurya ICBM RTP** [redacted]. On [redacted] SS-20 single-bay garage components were next to the railspurs at the RTP. They were not present on [redacted] and were probably for Base 5 which was observed under construction.

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18. (TSR) SS-20 field training exercises in the Yurya Complex were as follows:

Location	Date	Remarks
SS-20 Training Area [redacted]	[redacted]	Launch line consisting of at least ten camouflaged SS-20-associated vehicles, approximately 1 nm north of the training area at 59-17-55N, 049-19-09E; one launch line of three TELs only on [redacted]
FTA 3C-RVT [redacted]	[redacted]	Launch line consisting of at least eight camouflaged SS-20-associated vehicles
FTA RA [redacted]	[redacted]	One TWIN EAR antenna and at least eight other camouflaged SS-20-associated vehicles
Mobile Base 1	[redacted]	C3 unit consisting of five camouflaged SS-20-associated vehicles, 6 nm southeast of Mobile Base 1 at 59-04-00N 049-56-15E

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Western USSR

19. (S/D) **Smorgon Mobile IRBM Base 1.** On [redacted] an extra bay was being added to one three-bay garage at this base. Footings for an extra bay have been laid next to a second three-bay garage and linear grading has been prepared next to the third three-bay garage. This is the fourth mobile IRBM support base to undergo three-bay to four-bay conversion.

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20. (TSR) **Gresk Mobile IRBM Base 1.** On [redacted] an SS-20 TEL with a missile canister was in the [redacted] near the gantry crane (Figure 5A). The TEL and canister were not camouflaged.

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(Figure 5B).

21. (S/D) **Kivertsy Mobile IRBM Base 1.** On [redacted] was under construction at this base. A technical support building, a high two-bay building, and a clerestory building were in various stages of construction. No single-bay garages have been observed at this base. Also on [redacted] SS-4 missiles were erected on two of the four launch pads.

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22. (S/D) **Lebedin IRBM Launch Site 2** [redacted]. On [redacted] was under construction at this former SS-5 launch site. As of [redacted] footings for a technical support building, a high two-bay building, and a clerestory building were near [redacted]. All but two of the [redacted] in the western USSR are collocated with SS-20 mobile IRBM bases, which suggests that a collocated SS-20 base is a future possibility at this site.

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23. (S/D) **Lebedin IRBM Launch Site 3** [redacted]. On [redacted] activity was observed in the launch area of this deactivated launch site. Earth was being removed from two earth-mounded buildings associated with the easternmost launch pad. It is possible that SS-20-related construction will start at this site in the near future.

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24. (S/D) **Lebedin Mobile IRBM RTP** [] Two temporary support areas (TSAs) have been identified at this facility. The first consists of at least 35 house trailers which were being aligned on [] the second TSA, consisting of approximately 36 tents, was identified. No SS-20-related components have been identified at this facility. 25X1
25X1
25X1
25. (S/D) **Dyatlovo MRBM Launch Site 2** [] On [] was under construction in the launch area. The NPHF consisted of footings for a probable technical support building, a high two-bay building, and one unidentified building (possibly an 11-bay garage). No single-bay or three-/four-bay garages have been observed to date. 25X1
26. (S/D) **Dyatlovo MRBM Launch Site 3** [] On [] the protective earthen mounds around two of the launch pads were being removed. The reason for this activity has not been determined. The personnel shelter that has been under construction since August 1980 is complete. 25X1

Missile Test Centers

Kapustin Yar Missile/Space Test Center SSM

27. (S/D) Six SS-20-associated facilities and crew training areas were seen during the reporting period. Significant activity consisted of SS-20 activity in the Bivouac/Troop Training Area [] construction activity in the Missile Receiving/Inspection/Storage Area [] and SS-20 activity and construction in the General Support Area [] In addition, single-bay garage components were identified at Test Complex C, Site 3 [] 25X1
25X1
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25X1
28. (S/D) **Bivouac/Troop Training Area.** On [] seven SS-20-associated vehicles and the five SS-20 mockups were still in the battalion-sized training area. A camouflaged C3 unit consisting of one TWIN EAR antenna and three support vehicles was just west of the installation. In addition, a probable SS-20 battalion-sized unit of eight camouflaged vehicles, including two TELs and one TWIN EAR antenna, was just south of Mobile IRBM Crew Training 5 [] 25X1
29. (S/D) **Missile Receiving/Inspection/Storage Area.** Between [] a [] long shelter, without sidewalls, was erected over one of the railspurs used by SS-20 ground support equipment (GSE) trains. Support stanchions for an additional shelter were being erected on both sides of a railspur and an adjacent loading dock. When completed, the shelter will be [] 25X1
25X1
30. (TSR) **General Support Area.** On [] 13 camouflaged SS-20-associated vehicles were present and on [] nine camouflaged SS-20-associated vehicles were present. Significant expansion of support facilities continued throughout the reporting period. New facilities included a new clerestory building, a possible headquarters/administration building, and three garages (all in various stages of construction). The three garages will have approximately 48 bays, which represents a substantial increase in covered GSE parking space at this facility. 25X1
25X1
25X1
31. (S/D) **Test Complex C, Site 3.** On [] components for a single-bay garage were lying on the ground next to the road north of launch pad 3C1. The components consisted of at least four sliding-roof sections, two corner posts, two wall stanchions, one end section, and two stacks of wall panels. The components arrived at the facility between [] Site 3 is currently used for SS-4 crew training. 25X1
25X1

Plesetsk Missile/Space Test Center SSM

32. (S/D) **SSM Mobile Missile-Associated Bases.** All four mobile missile-associated facilities— Mobile ICBM Facility 1 [] and 2 [] and ICBM Launch Test Site 5 [] and 6 []—were seen during the reporting period. Snow removal from the roads in the operations and support areas of these facilities indicated that these facilities were occupied. Similar activity has been observed at these facilities during the winter months since at least November 1976. 25X1
25X1
33. (S/D) Twenty-one pairs of [] square probable mobile ICBM reference points (RPs)/boxes have now been identified at or near the four mobile ICBM-associated facilities (Figure 6). The RP/boxes are similar in design and configuration to a [] box in the floor of SS-20 single-bay garages. No cables/cable conduits have been observed extending to the mobile ICBM RP/boxes. Each pair of RP/boxes is approximately 40 meters apart and they are mainly in the operations areas of, or on access roads to, the mobile ICBM facilities. The 21 pairs of RP/boxes are distributed at the mobile ICBM facilities as follows: six pairs each at Mobile ICBM Facility 1 and 2 and ICBM Launch Test Site 5 and three pairs at ICBM Launch Test Site 6. During the winter months of this reporting period, a definite attempt was made to keep the area around at least one pair of RP/boxes snow free at each mobile facility at Plesetsk. 25X1
25X1
34. (TSR) The area around two probable mobile ICBM RP/boxes in the operations area of Mobile ICBM Facility 1 had been cleared of snow when observed on [] Additionally, four small areas near one of the RP/boxes had been cleared of snow down to the concrete. This pattern of snow removal/spacing is similar to, and dimensionally compatible with, the pattern of probable TEL leveling-jack hardpoints on an unimproved access road to Mobile ICBM Facility 2.³ 25X1
35. (S/D) On [] a MAZ-543-type vehicle was protruding from a single-bay garage in the operations area of Mobile ICBM Facility 1. 25X1

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36. (S/D) **Missile Handling Facility** [] Construction of the clerestory building in the SS-16 receiving and checkout area continued. In addition, a small, single-story building has been constructed near the clerestory building. Six expended probable SS-X-15 canisters have been stored in the SS-16 receiving and checkout area near the four-bay, rail-served storage building (two under a small, peak-roofed shed) since the termination of the SS-X-15 flight test program. In addition, at least one complete probable SS-X-15 canister has been stored in the expended canister storage area under another peak-roofed shed. During the reporting period, the SS-X-15 canisters stored in the SS-16 receiving and checkout area were moved to the expended canister storage area to make room for the aforementioned construction. A total of four probable SS-X-15 canisters and parts of four additional SS-X-15 canisters were observed in the expended canister storage area. At least one possible SS-X-15 canister was buried in the SS-13 receiving and checkout area. 25X1
37. (S/D) **Launch Test Site 21** [] The canvas/net covering on the forward portion of the metal framework adjacent to the east pad had collapsed by [] No apparent attempt was made to repair the framework. The number of crates around the perimeter road continued to increase and two flatbed-type trailers were near the canvas-covered pad extension structure on [] These trailers may have been used to transport the crates to this site. 25X1
25X1
38. (S/D) **IRBM R/D and Training Launch Site 13** [] Snow removal and vehicle tracks were indications of a high level of activity at this probable mobile missile training area throughout the reporting period. On [] a bus was heading toward the training area which is 600 meters west of Launch Site 13. 25X1
25X1
39. (S/D) **ICBM RTP** [] The large canvas-covered framework over a rail siding was still present on [] No significant activity was observed during the reporting period. 25X1
25X1

Single-Bay Garage Production

Bryansk Guided Missile Support Equipment Plant II

40. (S/D) It was previously reported in this series of quarterly reports that stationary end sections had not been identified in the plant since February 1980.
41. (TSR) Recently, however, it was determined that end section halves were present subsequent to February 1980. [] On that date, 20 end section halves (enough for five garages) were on their sides in storage area A where completed end sections had usually been observed and where the last complete end section was identified in February 1980. 25X1
42. (S/D) The fabrication of end sections in halves is the first identified design modification of these garages since components were first observed at the plant in April 1976. The roof now has the capability to slide along the entire length of the garage. This includes the end sections but does not include the permanently emplaced rectangular end section base that rests atop the corner posts at each end of the garage. Because of this structural arrangement, the modification would not allow a larger object to be passed through the roof when open. Therefore, the modification is probably a solution to problems in the original design of the opening and closing feature of the roofs. Thus far, garages with modified roofs have been observed at two of the ten new mobile IRBM bases identified since May 1980: Yurya Mobile IRBM Base 4 and Dyatlovo Mobile IRBM Base 1 (Figure 7).
43. (S/D) Although [] end sections were being produced in halves, a review of coverage for that period revealed enough objects, which were probably end section halves, for the construction of 28 and one-half garages. However, this does not mean that the total number of garages fabricated would be increased by 28.5 but rather that 28 to 29 garages previously reported as being incomplete were, instead, complete. 25X1
25X1
44. (S/D) Table 2 shows the minimum number of garages produced at this plant since components were first observed there in April 1976.

SS-16/-20 Command and Control

45. (S/D) Significant command and control activity observed during the reporting period (Table 3) included the construction of a C-shaped command and control building with a roof-mounted probable antenna array, two horizontal dipole antennas, and two 30-meter lattice towers (one with a probable KY-EL-06 antenna) at Lida Mobile IRBM Base 1; the construction of a new bunker at the Chita and Smolensk SRF Army command posts; the completion of a C-shaped command and control building with a roof-mounted probable antenna array at Novosibirsk Mobile IRBM Base 5; the construction of C-shaped command and control buildings at Verkhnyaya Salda Mobile IRBM Base 5 and Yurya Mobile IRBM Base 5; the completion of a C-shaped command and control building, an 11-bay garage, a dipole antenna, and a mast at Gresk MRBM Regt Command Post/Bunker; and the removal and construction of antennas at several additional MR/IRBM facilities.
46. (S/D) At Lida Mobile IRBM Base 1, a C-shaped command and control building with a roof-mounted probable antenna array, two horizontal dipole antennas (a frequency diverse pair), and two 30-

Table 2.
Minimum Number of SS-20 Single-Bay Garages Fabricated at and
Shipped from Bryansk Guided Missile Support Equipment Plant II

This table in its entirety is classified SECRET/WMINTEL

Dates of Usable Coverages	Number of Days Between Usable Coverages	Fabricated		Shipped	
		Complete Garages*	Incomplete Garages	Complete Garages*	Incomplete Garages
	31	5	2	0	6-7
Garages fabricated and shipped, 27-Feb-through-		7		6-7	
Garages fabricated and shipped prior to		291-328		288-320	
Garages fabricated and shipped since Apr-76		298-335		294-327	

*Includes two stationary end sections and eight sliding-roof sections.

**No usable imagery of the plant was acquired between

meter lattice towers (one with a probable KY-EL-06 antenna; Figure 8), have all been collocated for the first time. This is also the first identification of a KY-EL-06 antenna at a deployed mobile missile base.

47. (S/D) The probable KY-EL-06 antenna at Lida is mounted on the end of a horizontal support boom at the top of one of the lattice towers (inset, Figure 8). This type of antenna was first identified at the Kapustin Yar MR/IRBM Bivouac/Troop Training Area.

48. (S/D) The C-shaped building, horizontal dipole antennas, and lattice towers are all separately secured within the missile base support area and probably provide regiment-level command and control communications for the SS-20 missiles deployed at Lida.

49. (S/D) A single arch-roofed, drive-in bunker was under construction next to the western side of the Chita SRF Army Command Post/Bunker/Hard (Figure 9). The new

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bunker was [] and had not been earth mounded. A number of probable corridor sections were on the ground near the southern end of the command post/bunker. This may indicate that the new bunker will be connected to the command post/bunker by a covered walkway.

50. (S/D) A new arch-roofed, drive-in bunker was also under construction in the motor pool area of the Smolensk SRF Army Command Post/Bunker/Hard [] This bunker was 34 meters long by approximately 7 meters wide and had not been earth mounded.

51. (S/D) At Novosibirsk Mobile IRBM Base 5, the C-shaped command and control building has been completed and has a roof-mounted probable antenna array. This new probable antenna array was first observed on []

52. (S/D) C-shaped command and control buildings were in a final stage of construction at Verkhnyaya Salda Mobile IRBM Base 5 and Yurya Mobile IRBM Base 5.

53. (S/D) A C-shaped command and control building, an 11-bay garage, a new horizontal dipole antenna, and a new communications-related mast have been completed in a fence-secured area at the Gresk MRBM Regiment Command Post/Bunker (Figure 10). One of the two horizontal dipole antennas which had been near the command post/bunker had been removed. The C-shaped building was constructed in its place. No modifications have been observed on the command post bunker.

54. (S/D) At the Gresk MRBM Regiment Headquarters Radio Receiver Bunker Hard, two quadrant antennas (a frequency diverse pair) and one horizontal dipole antenna (a part of a frequency diverse pair)

were removed. Also, all of the antennas have been removed at the Slonim MRBM Regiment Headquarters Radio Receiver Bunker/Hard and all of the antennas have probably been removed at the Lebedin IRBM Regiment Headquarters Radio Receiver Bunker/Hard. This is similar to activity at Postavy, Polotsk, and Smorgon where the regiment-level receiver facilities were deactivated when the SS-20 was deployed.

55. (S/D) At the Polotsk/Disna MRBM Regiment Headquarters Radio Communications Transmitter Station, a quadrant antenna, which had been a part of a frequency diverse pair, had been removed.

56. (S/D) At the Gresk MRBM Regiment Headquarters Radio Communications Transmitter Station, three new dipole antennas which had been reported under construction in the last mobile missile summary, had been completed by February 1981.

57. (S/D) The antenna field at the Olovyanaya ICBM Complex Command Post Bunker has been enlarged and a new 2-2-2 fishbone antenna has been erected. The new antenna was first observed in January 1981 and is oriented 95/275.

58. (S/D) The antenna field at Olovyanaya ICBM Headquarters Transmitter Northwest/Bunker/-Hard was also being enlarged and at least two new double rhombic antennas were under construction on []

59. (S/D) At Drovyanaya Mobile IRBM Base 4, three lattice towers were on the ground near the control building in May. A YU-EL-01 was under construction on the roof of the control building. The control building is being modified for use with the SS-20 mobile system.

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Table 3. Command and Control Developments at Deployed SS-16/20 Associated Facilities as of [REDACTED] This table in its entirety is classified TOP SECRET RUFF

NEW SS-16/20-RELATED ANTENNAS											PRESENT ANTENNA INVENTORY											Comments
Active Directional Tower	30 Meter Lattice Tower	Rad Mounted Arrays (YU-EL 01)	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Handicapped Antennas	Antenna Masts	Lattice Towers (all types)	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Handicapped Antennas	Antenna Masts	Large C-Shaped Hq Admin Bldg	Small C-Shaped C&C Bldg	Rectangular Bldg Assoc w/ Small C-Shaped Bldg	Bunker Modification Yes/No Completed	Communications Satellite Station	TWIN EAR Unit Regularly Seen	
CHITA SRF ARMY																						
Drovyangaya ICBM Cplx	A	4	—	2	—	—	—	—	6	—	3	—	—	—	1	—	—	—	Comp No Yes *	Type B*	No Yes Yes*	Parking apron for TWIN EAR still ucon
CP/Alt/Bnk [REDACTED]	A	2	—	—	—	—	—	—	2	4	—	—	—	—	3	—	—	—	—	—	—	2 sets of mast-mounted TWIN EAR ants erected
Rad Rcvr [REDACTED]	A	2	—	—	—	—	2*	—	3	3	—	—	—	—	—	—	—	—	—	—	—	Facility now completed
Rad Xmt [REDACTED]	A	—	—	—	—	—	—	—	—	4	8	—	—	—	—	—	—	—	—	—	—	—
Mobile Base 1 [REDACTED]	A	2	Yes	—	—	—	—	2	2	—	—	—	—	—	2	—	—	—	—	—	—	Occasionally seen
Mobile Base 2 [REDACTED]	A	2	Yes	—	—	—	—	1	2	—	—	—	—	—	1	—	—	—	—	—	No	—
Mobile Base 3 [REDACTED]	A	2	Yes	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	No	3 lattice towers on ground; YU-EL-01-ucon
Mobile Base 4 [REDACTED]	U	3	+	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	—
Mobile Base 5 [REDACTED]	A	2	Yes	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	No	—
Olovyanaya ICBM Cplx																						
CP/Bnk [REDACTED]	U	3	—	—	—	3*	—	—	1	1	4	—	—	—	2	—	—	—	Yes	Type B	No	3 lattice towers; 3* washer antennas and; 1 new FISHBONE antenna completed
CP/Alt/Bnk [REDACTED]	A	—	—	—	—	—	—	—	—	2	4	—	—	—	1	—	—	—	No	—	No	—
Rad Rcvr [REDACTED]	A	—	—	—	—	—	—	—	2	1	2*	—	—	2	1	—	—	—	No*	—	No	2 FISHBONE ants removed; 2 new bldgs in ant field
Rad Xmt [REDACTED]	A	—	—	—	—	—	—	—	—	4	—	8	—	—	—	—	—	—	No	—	No	—
Rad Xmt NE [REDACTED]	A	—	—	—	—	—	—	—	2	6	—	8	—	2	—	—	—	—	No	—	No	2 new double rhombic antennas ucon
Rad Xmt NW [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	—
Mobile Base 1 [REDACTED]	U	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	—
VINNITSA SRF ARMY																						
Mozyr MRBM Div	A	—	—	—	—	—	—	—	—	2	—	—	—	2	3	—	—	—	Comp	Type A	No	New bldg ucon near bnk
CP/Bnk [REDACTED]	A	—	—	—	—	—	—	—	—	4	—	—	2	2	3*	—	—	—	No	—	No	2 masts support FORK REST ants
Rad Rcvr [REDACTED]	A	—	—	—	—	—	—	—	—	6	—	—	2	2	2*	—	—	—	No	—	No	2 masts support FORK REST ants [REDACTED]
Rad Xmt [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	—	No	Located 3.5 nm SW of div CP & rcvr
Mobile Base 1 [REDACTED]	A	—	No	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	—
Konkovichi MRBM Regt																						
CP/Bnk [REDACTED]	A	—	—	1	—	—	—	3	—	4	—	—	—	—	1	1*	—	—	Yes	No	No	New hq bldg constr in support area
Rad Rcvr [REDACTED]	A	—	—	—	—	—	—	—	—	8	—	—	1 prob	—	—	—	—	—	No	No	No	—
Rad Xmt [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	No	No	—
Mobile Base [REDACTED]	A	—	No	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	Mobile base collocated with rcvr & CP
Kashanovich MRBM Regt																						
CP/Bnk* [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	—	—	3	—	—	—	No	No	No	This facility is not the regt CP/bnk & prob never functioned as such
Rad Rcvr [REDACTED]	A	—	—	2	—	—	—	1	—	4	—	—	2	—	—	Ucon	1*	No	No	No	No	Ants by C-shaped C&C bldg listed under rcvr totals
Rad Xmt [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	No	No	—
Mobile Base [REDACTED]	A	—	No	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Mobile base collocated with rcvr & CP
Comel MRBM Regt																						
CP/Bnk [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	—	—	3	—	—	—	No	No	No	2 masts support FORK REST ant
Rad Rcvr [REDACTED]	A	—	—	—	—	—	—	—	—	8	—	—	2	1	5*	—	—	—	No	No	No	3 FORK REST ants
Rad Xmt [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	4	—	—	—	—	—	—	No	No	No	—
Mobile Base* [REDACTED]	U	—	No	2	—	—	—	—	2*	—	—	—	—	—	—	Ucon	Comp	Comp	—	—	No	Rechitsa Mobile IRBM Spt Base; ants located by C-shaped C&C bldg
Lutsk MRBM Div																						
CP/Bnk [REDACTED]	A	—	—	—	—	—	—	—	—	4	—	—	2	1	4	—	—	—	—	—	—	Clearing for 2 dipoles seen [REDACTED]
Rad Rcvr [REDACTED]	A	—	—	—	—	—	—	—	—	5	—	4	2	1	4	—	—	—	—	—	—	2 FORK REST ants
Rad Xmt [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1 new dipole erected
Lutsk MRBM Regt																						
CP/Bnk [REDACTED]	A	—	—	—	—	—	—	—	—	4	—	—	—	1	3	—	—	—	Yes	—	—	A revetment was constructed near ant field
Rad Rcvr [REDACTED]	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile Base 1 [REDACTED]	U	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

*See comments.

Table 3. (Continued)

	Active	Declassified	NEW SS-16/20-RELATED ANTENNAS										PRESENT ANTENNA INVENTORY										Comments			
			Under Construction	30 Meter Lattice Tower	Roof Mounted Arrays (YU-EL-01) Antennas	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Lattice Towers (all types)	Horizontal Dipole Antennas	Fishbone Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Large C-Shaped Hq Admin Bldg	Small C-Shaped C&C Bldg	Rectangular Bldg Assoc w/Small C-Shaped Bldg	Bunker Modification Yes/No Completed			Communications Satellite Station	TWIN EAR Unit Regularly Seen
Kivertsy MRBM Regt CP/Bnk [redacted] Rad Rcvr [redacted] Mobile Base 1 [redacted]	A D U		-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	Receiver ants removed	25X1 25X1 25X1
Romny IR/IRBM Div CP/Bnk [redacted] Rad Rcvr [redacted] Rad Xmttr [redacted]	A A A		-	-	-	-	-	-	-	-	4	-	-	2	-	3	-	-	-	-	-	-	-	-	11 revetments in ant field [redacted]	25X1 25X1 25X1
Lebedin IRBM Regt CP/Bnk [redacted] Rad Rcvr [redacted] Mobile Base 1 [redacted]	A D U		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Bldgs ucon at rcvr bnk; antennas removed	25X1 25X1 25X1
OMSK SRF ARMY Novosibirsk ICBM Cplx CP/Bnk [redacted] Rad Rcvr [redacted] Rad Xmttr [redacted] Mobile Base 1 [redacted] Mobile Base 2 [redacted] Mobile Base 3 [redacted] Mobile Base 4 [redacted] Mobile Base 5 [redacted]	A A A A A A A U U		2	-	-	1	-	-	1	4	2	1	-	-	-	3	-	-	-	Comp	-	-	-	-	1 mast supports FORK REST ant	25X1 25X1 25X1 25X1 25X1
			1	-	-	2	-	-	2	1	2	2	-	-	-	2*	-	-	-	-	-	-	-	-		
			2	-	7	-	6	-	1	2	7	-	6	-	1	1	-	-	-	No	-	-	No	-		
			2	Yes	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	No	-		
			2	Yes	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	No	-		
			2	Yes	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	No	-		
			-	Yes	-	-	-	-	-	2	-	-	-	-	-	-	-	1*	-	-	-	-	No	-	Roof-mounted prob ants	
SMOLENSK SRF ARMY Postavy MR/IRBM Div CP/Bnk [redacted] Rad Rcvr [redacted] Rad Xmttr [redacted]	A A A		1	-	3	-	-	1	-	1	5	-	-	1	-	3	-	-	-	Comp	No	Yes	-	-	Bldg ucon near antenna field undergoing modification; 6 van trucks & trailers at bnk	25X1 25X1 25X1
			2	-	-	-	-	-	-	2	-	-	-	2	-	-	-	-	-	Yes	No	No	-	-		
			-	-	-	-	-	-	-	-	9	-	-	2	-	6	-	-	-	No	No	No	-	-		
Postavy MRBM Regt CP/Bnk [redacted] Rad Rcvr [redacted] Mobile Base [redacted]	A D A		-	-	2	-	-	-	-	-	2	-	-	-	-	1	-	Comp	-	Comp	No	No	No	-	Mobile base collocated with regt CP	25X1 25X1 25X1
Smorgon MRBM Regt CP/Bnk [redacted] Rad Rcvr [redacted] Rad Xmttr [redacted]	A D A		-	-	2	-	-	-	1	-	2	-	-	-	-	1	-	-	-	Comp	No	No	No	-	Bldg near cp/bnk comp	25X1 25X1 25X1
			-	-	-	-	-	-	-	-	8	-	-	-	1	-	-	-	-	-	No	No	No	-		
Mobile Base 1 [redacted] Mobile Base 2 [redacted]	A A		-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*	-	Occasionally seen Roof-mounted +prob ants ucon	25X1
			-	No	-	-	-	-	-	-	-	-	-	-	-	-	-	Comp*	-	-	-	-	No	-		
Polotsk MRBM Regt CP/Bnk [redacted] Rad Rcvr [redacted] Rad Xmttr [redacted]	A D A		-	-	2	-	-	-	3	-	2	-	-	-	-	3	-	-	-	-	Yes	No	No	No	Polotsk/Dina MRBM Regt Xmttr; mast supports a FORK REST ant	25X1 25X1 25X1
			-	-	-	-	-	-	-	-	8	-	-	-	1	-	1*	-	-	-	No	No	No	-		
Mobile Base 1 [redacted] Mobile Base 2 [redacted]	A A		-	No	2	-	-	-	-	-	2	-	-	-	-	-	-	-	Comp	-	-	-	No	-	Roof-mounted prob ants	25X1
			-	No	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	No	-		
Lida MRBM Div CP/Bnk [redacted] Rad Rcvr [redacted] Rad Xmttr [redacted]	A A A		-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	No	No	No	No	Double rhombic antennas	25X1 25X1 25X1
			-	-	-	-	-	-	-	-	2	-	2*	-	-	2	-	-	-	-	No	No	No	-		
			-	-	-	-	-	-	-	-	10	-	-	3	-	2	-	-	-	-	No	No	No	-		

*See comments.

Table 3. (Continued)

		NEW SS-16/20-RELATED ANTENNAS										PRESENT ANTENNA INVENTORY										Comments						
		Active	Deactivated	Under construction	30 Meter Tower	Lattice	Roof Mounted Arrays (YU-EL 01)	Horizontal Dipole Antennas	Frangible Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Lattice Towers (all types)	Horizontal Dipole Antennas	Frangible Antennas	Rhombic Antennas	Quadrant Antennas	Hardened Antennas	Antenna Masts	Large C-Shaped Hq/Admin Bldg		Small C-Shaped C&C Bldg	Rectangular Bldg Assoc w/Small C-Shaped Bldg	Bunker Modification	Yes/No Completed	Communications Satellite Station	TWIN EAR Unit
Lida MRBM Regt	CP/Bnk	A	—	—	—	—	—	—	—	—	—	—	—	2	—	—	2	1*	2	—	—	—	—	—	No	—	At LS-2	25X1
Rad Rcvr	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Type B	25X1
Mobile Base 1	U	2*	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Comp	—	—	—	—	—	At LS-1; roof mounted prob ants; prob KY-EL-06	25X1
Gresk MRBM Regt	CP/Bnk	A	—	—	2	—	—	—	—	—	1	—	2	—	—	—	—	—	1	—	—	—	—	—	—	—	Type B	25X1
Rad Rcvr	A	—	—	—	—	—	—	—	—	—	—	—	3	—	—	—	—	1*	—	—	—	—	—	—	—	—	At least 1 new dipole ucon	25X1
Rad Xmtr	A	—	—	—	—	—	—	—	—	—	—	—	6	—	—	2	—	—	—	—	—	—	—	—	—	—	Mobile base collocated with CP & rcvr; no roof mounted ants	25X1
Mobile IRBM Base 1	U	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Comp*	No	No	No	No	—	25X1	
Dyatlovo MRBM Regt	CP/Bnk	A	—	—	—	—	—	—	—	—	—	—	—	2	—	—	2	—	2	—	—	—	—	—	—	—	25X1	
Rad Rcvr	A	—	—	—	—	—	—	—	—	—	—	—	—	4	—	—	2	—	1	—	—	—	—	—	—	—	25X1	
Rad Xmtr	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	25X1	
Mobile Base 1	U	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25X1	
Pruzhany MRBM Div	CP/Bnk	A	—	—	—	—	—	—	—	—	—	—	3	—	—	2	—	—	1*	—	—	—	—	—	—	—	FORK REST	25X1
Rad Rcvr	A	—	—	—	—	—	—	—	—	—	—	—	2	—	—	2	2	2	1	—	—	—	—	—	—	—	25X1	
Rad Xmtr	A	—	—	—	—	—	—	—	—	—	—	—	4	—	—	6	2	—	—	—	—	—	—	—	—	—	25X1	
Slonim MRBM Regt	CP/Bnk	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25X1	
Rad Rcvr	U	—	—	—	—	—	—	—	—	—	—	—	2	—	—	2	—	1	2	—	—	—	—	—	—	—	25X1	
Rad Xmtr	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25X1	
Mobile Base 1	U	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25X1	
ORENBURG SRF ARMY	Verkhnyaya Salda ICBM Cplx	A	7	—	5	1	—	—	—	—	—	9	4	1	—	—	—	—	1	—	—	—	Comp	No	No	No	1 FORK REST ant	25X1
CP/Bnk	A	—	—	—	—	—	—	—	—	—	—	—	2	2	—	2	2	5	—	—	—	—	No	No	No	—	Facility prob deactivated	25X1
Rad Rcvr	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	No	No	—	2 FORK REST ants	25X1
Hq Spt Rcvr	A	—	—	—	—	—	1	—	—	—	—	—	7	—	3	2	—	2	—	—	—	—	Ucon	No	No	—	25X1	
Rad Xmtr	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25X1	
Mobile Base 1	A	2	Yes	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	No	Roof-mounted prob ants	25X1
Mobile Base 2	A	2	Yes	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	No	25X1	
Mobile Base 3	U	2	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	25X1	
Mobile Base 4	U	3	No	—	—	—	—	—	—	—	—	3	—	—	—	—	—	—	—	—	1*	—	—	—	No	—	25X1	
Mobile Base 5	U	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	1*	No	—	—	—	No	25X1	
VLADIMIR SRF ARMY	Yurya ICBM Cplx	A	7	—	4	1	—	—	—	—	—	9	3	1	—	—	—	2	—	—	—	—	Comp	No	No	No	25X1	
CP/Bnk	A	—	—	—	—	—	—	—	—	—	—	—	8	—	—	2	—	3*	—	—	—	—	No	No	No	—	25X1	
Rad Rcvr	A	—	—	—	—	—	—	—	—	—	—	—	10	—	1	—	—	6*	—	—	—	—	No	No	No	—	25X1	
Rad Xmtr	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25X1	
Mobile Base 1	A	2	Yes	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	No	25X1	
Mobile Base 2	A	2	Yes	—	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	No	25X1	
Mobile Base 3	U	2	Yes	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	25X1	
Mobile Base 4	U	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1*	—	—	—	No	—	25X1	
Mobile Base 5	U	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	No	1*	No	—	—	No	—	25X1	

*See Comments.

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